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Document Description: Contract N68936-00-D-0022 Delivery Order 0204



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Please direct inquiries regarding this document to:
Naval Air Warfare Center Weapons Division
Code K00000D (FOIA)
1 Administration Circle Stop 1009
China Lake, CA 93555-6100.

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF

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1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-00-D-0022		2. DELIVERY ORDER/ CALL NO. 0204		3. DATE OF ORDER/CALL 2003Sep29		4. REQ./ PURCH. REQUEST NO. 0010072972		5. PRIORITY		
6. ISSUED BY CDR NAWCWD CODE 210000D ATTN: L. ALDRIDGE (760) 939-2799 429 E BOWEN RD - STOP 4015 CHINA LAKE CA 93555-6108				7. ADMINISTERED BY CDR NAWCWD CODE 210000D ATTN: L. ALDRIDGE (760) 939-2799 1 ADMIN CIR, BLDG 982 CHINA LAKE CA 93555-6100		8. DELIVERY FOB <input checked="" type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)				
9. CONTRACTOR EER SYSTEMS INC CHUCK FARIS 3750 CENTERVIEW DRIVE CHANTILLY VA 20151				10. DELIVER TO FOB POINT BY (Date) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input checked="" type="checkbox"/> SMALL DISADVANTAGED <input checked="" type="checkbox"/> WOMEN-OWNED				
14. SHIP TO SEE SCHEDULE				15. PAYMENT WILL BE MADE BY DFAS - CLEVELAND CENTER & OPLOCs SAN DIEGO 4181 RUFFIN ROAD SAN DIEGO CA 92123-1819		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15				
16. TYPE OF ORDER		DELIVERY/ CALL		X		This delivery order/call is issued on another Govt. agency or in accordance with and subject to terms and conditions of above numbered contract.				
		PURCHASE				Reference your quote dated _____ Furnish the following on terms specified herein.				
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.										
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)	
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:										
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule										
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES			20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE	23. AMOUNT
		SEE SCHEDULE								
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle					24. UNITED STATES OF AMERICA BY: <u>Doreen Robbins</u> DOREEN P. ROBBINS CONTRACTING / ORDERING OFFICER			25. TOTAL \$1,081,837.00		
26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED DATE _____ SIGNATURE OF AUTHORIZED GOVT. REP. _____					27. SHIP NO. <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		28. DO VOUCHER NO.		29. DIFFERENCES	
36. I certify this account is correct and proper for payment. DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____					31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		30. INITIALS	
									33. AMOUNT VERIFIED CORRECT FOR	
									34. CHECK NUMBER	
									35. BILL OF LADING NO.	
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001		1.00	Unit		\$
	AV-8B Test Aircraft Recorder Upgrade				\$ NTE
	CPAF - In accordance with SOW entitled				
	"Upgrade of Instrumentation / Recording Systems adn Associated Data Viewing / Analysis Software for AV-8B Aircraft Numbers 85 & 88.				
	The Period of Performance runs from 9-29-03 through 3-31-05.				
	This fully funded task order is non-severable.				

ESTIMATED COST	\$1,081,837.00
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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000101	For Navy Accounting Purposes Only.				
	CPAF				
	PURCHASE REQUEST NUMBER 0010072972				
	ACRN AA Funded Amount				\$1,081,837.00

SECTION C Descriptions and Specifications

Contract N68936-00-D-0022

Task Order No. 0204

Revised: 9/4/2003 final

STATEMENT OF WORK**UPGRADE OF INSTRUMENTATION / RECORDING SYSTEMS
AND
ASSOCIATED DATA VIEWING / ANALYSIS SOFTWARE
FOR
AV-8B AIRCRAFT NUMBERS 85 & 88**

Applicable Contract SOW Sections: 3.3.1, 3.3.2, 3.3.3 & 3.3.5

1.0 BACKGROUND AND GENERAL SCOPE OF WORK**1.1 BACKGROUND:**

The Naval Air Warfare Center, Weapons Division (NAWCWD), China Lake, is tasked with responsibilities for weapons and systems integration for the Navy/Marine Corps AV-8B Attack Aircraft. To fulfill this mission, the NAWCWD AV-8B Integrated Product Team (IPT) operates several AV-8B test aircraft. These aircraft are extensively instrumented to record numerous flight data parameters, plus flight video. The instrumentation/recording systems aboard aircraft numbers 85 and 88 are old, out-of-date, and becoming unmaintainable. Communication with other NAWCWD IPTs (and others) has made the AV-8B IPT aware that there are modern, solid-state electronic instrumentation/recording systems available that are equally or more capable and much lighter weight than the systems currently aboard aircraft numbers 85 and 88. The AV-8B IPT has determined that the instrumentation/recording systems aboard these two aircraft must be upgraded to modern, solid-state systems and has received NAVAIR funding to accomplish this task.

1.2 GENERAL SCOPE OF WORK:

The Contractor shall upgrade the instrumentation and recording systems aboard aircraft numbers 85 and 88 with modern, solid-state electronic systems of essentially equal or better capabilities than the systems currently used for the subject aircraft. The Contractor shall deliver to the NAWCWD AV-8B IPT upgraded aircraft with fully flight-certified new instrumentation/recording systems (DDAS data for aircraft number 88, only). Additionally, the Contractor shall deliver software (and specialized hardware, if required) to download, view, interpret, and analyze combined voice/video/time-correlated data acquired by the new

instrumentation/recording systems. The Contractor shall deliver documentation that thoroughly documents the new system installations, plus complete system and operational manuals for the new systems. The Contractor shall provide training in the use and maintenance of the new system. The Contractor's efforts will make obsolete some of the existing documentation for the subject aircraft. Therefore, the Contractor shall review the existing aircraft documentation and update that documentation as necessary to reflect the new system installations.

The Contractor shall be responsible for Project Management. However, the Contractor shall regularly brief the Government of progress and shall conduct Project Milestone reviews with the Government. The Contractor shall not proceed past major milestones until approved to do so by the Government. The subject aircraft are vital test assets to the AV-8B IPT. Therefore, the Contractor shall coordinate with the Government relative to access to the physical aircraft and scheduling of aircraft downtime. The Contractor shall minimize aircraft downtime to the greatest reasonable extent possible.

2.0 APPLICABLE DOCUMENTS

See reference 2.2(a) for definition of all Government Points of Contact.

See reference 2.2(b) relative to undefined acronyms.

The Contractor shall contact the Government's Technical Assistant (TA) relative to proper version of the references defined below.

2.1 SPECIFICATIONS, STANDARDS, AND HANDBOOKS:

- | | | |
|----|--------------|--|
| a) | MIL-STD-1553 | Aircraft Internal Time Division
Command/Response Multiplex Data Bus |
| b) | ANSI Y14.100 | Engineering Drawing Practices |
| c) | ANSI Y14.5 | Dimensioning and Tolerancing |

2.2 OTHER DOCUMENTS, DRAWINGS, AND PUBLICATIONS:

- | | | |
|----|--------------------------|--|
| a) | | Government Points of Contact,
N68936-00-D-0022 |
| b) | | AV-8B Acronym List |
| c) | | Manufacturer's Tape Recorder Manuals |
| d) | A1-AV8BB-NFM-000 | NATOPS Flight Manual for AV-8B |
| e) | A1-AV8BB-TAC-000 | AV-8B Tactical Manual, NWP 55-3-AV8B |
| f) | FAC-TOOL-UDFDEV-231-06-U | Guide for the Use of the Unit Development
Folder (UDF), by AV-8B WSSF; NAWCWD |

- g) FAC-CM-P/P-2073-03-U Configuration Management Plan and Procedures, by AV-8B WSSF; NAWCWD
- h) OPNAVINST 4790.2 Series Naval Aviation Maintenance Program
- i) Aircraft Maintenance Manuals
- j) NAVAIR 01-1A-505 Aircraft Electrical and Electronic Wiring
- k) NAWCINST 3960.4 Project Test Plans for Test of Air Vehicles, Weapons, and Installed Systems
- l) (not used)
- m) SDN AV-8B-778 AV-8B Software Quality Plan
- n) SDN AV8B-455 AV-8B Mission Computing Section Configuration and Data Management Processes and Procedures Manual
- o) AV-8B Cost Data Reporting Requirements

3.0 REQUIREMENTS

3.1 GENERAL

3.1.1 Project Management -- The Contractor shall be responsible for Project Management through final delivery. However, the Contractor shall regularly brief the Government of progress (see Section 3.1.2) and shall conduct Project Milestone reviews with the Government. The Contractor shall not proceed past major milestones (See Section 3.1.10) until approved to do so by the Government. It is the Government's intent to provide product review and response within one week or less. The Contractor shall proactively pursue Government review and response. The Contractor shall verbally advise the Contracting Officer's Representative if Government review and response is not occurring in a timely manner.

3.1.2 Weekly Project Status Updates -- The Contractor shall contact (verbally, telephonic, or EMail) the Government's Technical Assistant (TA) weekly to discuss Project status. During this contact it may be mutually agreed to have an informal status meeting at a time and place to be negotiated between the TA and the Contractor's Task Leader. During such a meeting the Contractor shall, as a minimum, discuss the following:

- summarize Project status/progress
- identify any problems encountered and status of the problem
- identify any issues requiring Government intervention or support to enable the Contractor to proceed effectively

- 3.1.3 Monthly Progress/Status Report -- The Contractor shall deliver a Monthly Progress/Status Report (CDRL B001) no later than 9 working days after the close of each monthly accounting period. The Report shall include a summary of work performed for each task, problems encountered, problems solved, trips made, current schedules, and cost information. Cost information shall include monthly and cumulative funds/hours expended and a trend analysis graph depicting actual and planned expenditures. Additional information shall be provided as specified elsewhere in this Statement of Work.
- 3.1.4 Access to Physical Aircraft Assets -- The subject aircraft are vital test assets to the AV-8B IPT. Therefore, the Contractor shall coordinate with the Government relative to access to the physical aircraft and scheduling of aircraft downtime. The Contractor shall minimize aircraft downtime to the greatest reasonable extent possible.
- 3.1.5 Summary of Final Project Deliverables -- As further defined in Sections 3.2 - 3.12, the following are required final deliverable products to complete this Project delivery. No partial delivery is acceptable or useful to the Government. Numerous interim data products are also deliverable, as defined in Sections 3.2 - 3.13.
- NAWCWD AV-8B aircraft numbers 85 and 88 upgraded with solid-state electronic flight data, voice, and video time-correlated instrumentation and recording systems, fully flight qualified and ready for test operations.
 - NAWCWD AV-8B aircraft number 88 DDAS system upgraded with a solid-state electronic instrumentation and recording system.
 - Full documentation, for each aircraft, of all aircraft modifications performed.
 - Full set of system and operational manuals, for each aircraft, of all new systems installed aboard the aircraft.
 - Update of all existing aircraft documentation, for both aircraft, reflecting the installation of the new systems.
 - Software (installed and operational on Government computer systems) and special hardware (if necessary) required for the Government to download, view, interpret, and analyze the combined voice/video/time-correlated data acquired by the new instrumentation systems. Additionally, the Contractor shall deliver System and Operating Manuals for this software (and hardware, if necessary).
 - Training of Government personnel in the use and maintenance of all new hardware and software delivered as completion items for this Project.
- 3.1.6 High-Level Summary of Instrumentation Systems to be Replaced --
- Replace the MARS recorders in aircraft 85 with a solid-state on-board system.
 - Replace the flight instrumentation recorders on aircraft 88 with a solid-state system.
 - Replace the DDAS recorder in aircraft 88 (door 61) with a solid-state on-board system.

- 3.1.7 Contractor Training -- The Contractor may find it necessary to take specialized training in advanced concepts of instrumentation systems, MIL-STD-1553 (ref. 2.1(a)) databus systems, modern digital recording systems, etc. Additionally, the Contractor may find it necessary to attend available Seminars regarding these topics.
- 3.1.8 Contractor Travel -- Non-local, domestic and/or foreign, travel may be required to gather technical data and requirements, investigate/evaluate instrumentation/recorder systems, attend meetings, attend specialized training, and attend Seminars.
- 3.1.9 Access to Government Vehicles -- The Contractor may request access to Government vehicles to transport data, equipment, material, and Contractor personnel to/from various locations (see conditions of use specified elsewhere within the Task Order).
- 3.1.10 Required Project Major Milestones -- The Contractor's Project Plan shall include, as a minimum the following Project Major Milestones. The Contractor shall not proceed past these Major Milestones until approved to do so by the Government's Technical Assistant via an Email message to the Contractor's Task Leader.
- 1) Plan Of Action & Milestones -- Develop a detailed Plan Of Action & Milestones (POA&M) for the Project. (see Section 3.2)
 - 2) Systems Requirements Specifications -- Research of the capabilities of the existing instrumentation systems aboard the subject aircraft and gain an understanding of how Users will utilize the new systems. Submit a Systems Requirements Specifications (SRS) and a System Acceptance Test Plan (SATP) for the new aircraft installations. (see Section 3.3)
 - 3) System Tradeoff Analysis -- Research the technology area and market to determine what options are available that meet the approved SRS. Submit a System Tradeoff Analysis presenting the available options and the Contractor's recommendations. (see Section 3.4)
 - 4) Preliminary Design Review -- Perform preliminary design on the approved option and conduct a Preliminary Design Review (PDR) with the Government. (see Section 3.5)
 - 5) Final Design Review -- Perform final design for each aircraft in accordance with the approved PDR and conduct a Final Design Review with the Government. (see Section 3.6)
 - 6) System Flight Worthiness Certification -- Obtain flight worthiness certification for the new system designs. (see Section 3.7)
 - 7) System Acquisition, Installation, and Integration -- Purchase, install, and integrate the new systems in accordance with the approved Final Design. (see Section 3.8)
 - 8) Develop or acquire and install software (and specialized hardware, if necessary) to allow the Government to download, view, interpret, and analyze the new data streams provided by the new instrumentation/recording systems (time-correlated voice and video, etc.). (see Section 3.9)

- 9) Train users regarding how to use the new systems (both on-board and software systems). (see Section 3.10)
- 10) Deliver a complete documentation package. (see Section 3.11)
- 11) Deliver the complete fully-operational systems to the Government. (see Section 3.12)

3.1.11 Design Constraints -- The data content and formats delivered by the new solid-state electronic recorders must be compatible with existing and/or planned Government (and other User) data analysis tools. The Contractor shall study the existing data analysis tools (at NAWCWD, NAWCAD, and Boeing, St Louis) to define the requirements. The Contractor shall define the requirements within the System Requirements Specifications developed in Section 3.3.

3.2 PLAN OF ACTION & MILESTONES (Project Major Milestone, see Section 3.1.10)

The Contractor shall develop a detailed Plan Of Action & Milestones (POA&M, CDRL B002), using MS Project software (or alternative software agreed to in writing by the Government's Technical Assistant) that clearly shows how the Contractor will complete the total Project within the Task Order period of performance. The POA&M shall include and be organized by the Project Major Milestones defined in Section 3.1.10. The POA&M shall depict the entire Project from Task Order initiation through final Project completion and the end of Task Order performance. The first "draft" and "final" submittals of the POA&M (CDRL B002) will be considered the deliverables for this Project Major Milestone. The Government's Technical Assistant (TA) will notify the Contractor of Milestone completion via an EMail to the Contractor's Task Leader (TL) upon receipt and acceptance of an acceptable POA&M. Thereafter, the Contractor shall update and resubmit the POA&M monthly (CDRL B002) to reflect Project progress and status.

CAUTION: The Contractor shall manage this Project to assure Project completion within the Task Order period of performance.

3.3 SYSTEM REQUIREMENTS SPECIFICATIONS AND PROJECT ACCEPTANCE PLAN (Project Major Milestone, see Section 3.1.10)

The Contractor shall thoroughly research and document the capabilities of the instrumentation / recording systems currently used with AV-8B aircraft numbers 85 & 88. The Contractor shall include in this research the external instrumentation pod used with aircraft number 88. The Contractor shall note that only aircraft 88 has a DDAS recorder, and only aircraft 88 need collect DDAS data streams in the new system. The Contractor shall review all available documentation regarding the existing instrumentation/recording systems and the on-board systems and interfaces to which the existing instrumentation/recording systems are connected (this review shall include, as a minimum, references 2.2(c) - (e)). The Contractor shall interview engineers and technicians who use and service the existing systems. The Contractor shall interview technical personnel who use and analyze the data (flight data, voice, and video data streams). The personnel to be interviewed shall include system and/or data users from NAWCWD, China

Lake, NAWCAD, Patuxent River, and Boeing, St Louis. The Contractor's TL shall coordinate with the TA to create a list of specific personnel to be interviewed.

The Contractor shall incorporate the above research (including the Design Constraints defined in Section 3.1.11) into System Requirements Specifications (SRS, CDRL B003). The SRSs shall define new systems with equal or greater capabilities than the existing systems. The basic SRS shall include:

- Replace the MARS recorders in aircraft 85 with a solid-state on-board system.
- Replace the flight instrumentation recorders on aircraft 88 with a solid-state system.
- Combine and record voice and video data streams into a single time-correlated data stream recorded by a solid-state system, for each aircraft.

The Contractor shall develop a separate SRS (CDRL B003) addressing replacement of the DDAS recorder in aircraft number 88 (door 61) with a solid-state on-board system.

The SRSs will become the baselines for all elements of the future systems.

Upon Government approval of the SRSs by the TA via an EMail to the TL, the Contractor shall develop and deliver a Project Acceptance Plan (PAP, CDRL B004) that will be used to verify that the new systems satisfy all requirements defined by the SRS. The DDAS system aboard aircraft number 88 and the software package required to view and analyze the time-correlated combined video/voice data shall each be discussed separately within the PAP.

Government approval of both the SRSs and the PAP via an EMail from the TA to the TL will complete this Project Major Milestone.

During the period of performance of this Project, the Contractor may request update or revision to the SRSs and the PAP via EMail request to the TA. However, the Contractor shall work only to approved versions of the SRSs. Upon specific approval (via EMail from the TA to the TL), the Contractor shall revise/update the SRSs/PAP to incorporate approved changes (CDRL B005). Upon approval of the revised/updated documents (via EMail from the TA to the TL), the newly approved documents shall become the Project baseline.

3.4 SYSTEMS TRADEOFF ANALYSES AND RECOMMENDATIONS (Project Major Milestone, see Section 3.1.10)

3.4.1 Solution Search -- The Contractor shall search for systems capable of meeting the requirements defined in the approved SRSs. While not a requirement, similarity to and compatibility with similar systems used by other NAWCWD organizations is desirable. As a minimum, the Contractor shall consider the following:

- Interview NAWCWD personnel familiar with the existing AV-8B systems to learn what research that NAWCWD has already conducted. (examples include: Terry Denney, Code 542A00D, Steve Fleischer, Code 542400D, Ron Going, Code 413300D, and Ron Page, Code 4K8100D)
- Interview other NAWCWD IPTs and organizations to learn what systems they are using (or contemplating) and the capabilities of those systems. (examples: F/A-18 and AH-1 IPTs, and VX-9)

- Interview personnel from other aircraft test facilities to learn what systems they are using and the capabilities of those systems. (examples: NAWCAD, Boeing, St Louis, Edwards AFB, Eglin AFB, etc.)
- Search the InterNet and trade publications. (examples: systems available from Xytronix Research & Design, Inc., Teletronics Technology Corporation, etc.)
- Specifically investigate the reportedly "excess" DDAS system at NAWCAD, Patuxent River, MD.

3.4.2 Systems Tradeoff Analyses and Recommendations -- The Contractor shall prepare a Systems Tradeoff Analyses and Recommendations Report (CDRL B006). The Report shall include not less than the following:

- summarization of all research conducted
- a matrix spreadsheet that compares each candidate solution against each requirement of the SRS, portrays additional capabilities of each system, projects total system weight for each system, projects total system volumetric size for each system, shows the estimated total Project costs associated with each candidate (based upon the Contractor's recommended DDAS solution), and clearly identifies any deficiencies associated with each candidate. The matrix shall group the DDAS candidates separately and shall portray total Project costs as a plus/minus delta for each candidate.
- The Contractor shall select between two to three of the top candidates and discuss issues of reliability, maintainability, software and user interface issues, and risks for each candidate (separate discussions for the DDAS candidates).
- The Contractor's recommendations and the Contractor's rationale supporting their recommendations.

The Government will evaluate the Report (CDRL B006) and other factors. The Government will select the candidate(s) with which the Contractor is authorized to proceed. The Government will advise the Contractor of its selection via an EMail from the TA to the TL.

3.4.3 Conceptual System Design Document -- The Contractor shall obtain all design data necessary to implement the selection candidate(s) from the respective vendor(s). The Contractor shall analyze the design data obtained relative to the Systems Tradeoff Analyses and Recommendations Report (CDRL B006). If any new negative factors are discovered within the new design data, they shall be verbally brought to the Government TA's attention within 2 working days of discovery. Within 2 working days of receiving notice of new negative factors, the Government will advise the Contractor via EMail to the TL whether the Contractor may proceed with the original selected candidate(s) or a newly selected candidate. If the Contractor is directed to proceed with a new candidate, the Contractor shall collect all design data necessary to implement the newly selected candidate(s) and analyze the data as stated above. If no negative factors emerge from the Contractor's study of candidate design data, the Contractor shall create a Conceptual System Design Document (CDRL B007) that

summarizes how the selected candidate(s) will be integrated into the subject aircraft and will interface with existing and new data analysis tools.

Government approval of the Conceptual System Design Document (CDRL B007) via an EMail from the TA to the TL will complete this Project Major Milestone.

3.5 PRELIMINARY DESIGN REVIEW (Project Major Milestone, see Section 3.1.10)

Each of the two subject AV-8B aircraft is unique. Therefore, the specific design solution for one aircraft is not likely to be identical for the other aircraft. The software package needed to view and analyze the time-correlated combined voice/video data is addressed in Section 3.9.

3.5.1 Preliminary Aircraft Modification Proposals -- Separately for each aircraft and for the DDAS system aboard aircraft 88, the Contractor shall prepare a preliminary Aircraft Modification Proposal (CDRL B008). The Contractor shall use references 2.2(f) & (g) as guidance for this effort. Each preliminary Aircraft Modification Proposal shall consist of the following parts: (1) mechanical analysis and preliminary Mechanical Design Package; (2) preliminary Electrical Power/Interface Analysis; (3) preliminary Electrical Design Package; and (4) preliminary Interface Control Document.

3.5.2 Preliminary Design Review Meeting -- The Contractor shall present the preliminary Aircraft Modification Proposals (CDRL B008) to the Government at a Preliminary Design Review (PDR) meeting at a time and place to be negotiated between the TA and TL. The Contractor shall resolve any Action Items assigned to it during the PDR and documented in the PDR's Meeting Minutes. (CDRL B008)

The Government will signify acceptance of the preliminary Aircraft Modification Proposals via an EMail from the TA to the TL. Government acceptance of all preliminary Aircraft Modification Proposals will complete this Project Major Milestone.

3.6 FINAL DESIGN REVIEW (Project Major Milestone, see Section 3.1.10)

3.6.1 Final Aircraft Modification Proposals -- Separately for each aircraft and for the DDAS system aboard aircraft 88, the Contractor shall prepare a final Aircraft Modification Proposal (CDRL B008). The Contractor shall use references 2.1(b) & (c) and 2.2(f) & (g) as guidance for this effort. Each final Aircraft Modification Proposal shall consist of the following parts: (1) mechanical analysis and final Mechanical Design Package; (2) final Electrical Power/Interface Analysis; and (3) final Electrical Design Package.

The Contractor shall prepare final Interface Control Documents (ICDs, CDRL B009) for each aircraft, and separately for the DDAS. The Contractor shall use references 2.2(f) & (g) as guidance for this effort. The ICDs shall define all interfaces between the subject aircraft and its associated instrumentation system.

- 3.6.2 Final Design Review Meeting -- The Contractor shall present the final Aircraft Modification Proposals (CDRL B008) and the final ICDs (CDRL B009) to the Government at a Final Design Review (FDR) meeting at a time and place to be negotiated between the TA and TL. The Contractor shall resolve any Action Items assigned to it during the FDR and documented in the FDR's Meeting Minutes. (CDRLs B008 & B009)

The Government will signify acceptance of the final Aircraft Modification Proposals and ICDs via an EMail from the TA to the TL. Government acceptance of all final Aircraft Modification Proposals and ICDs will complete this Project Major Milestone.

3.7 SYSTEM AIR WORTHINESS CERTIFICATIONS (Project Major Milestone, see Section 3.1.10)

- 3.7.1 Air Worthiness Certification Process Definition -- The process for obtaining an Air Worthiness Certification has not been documented for AV-8B aircraft. The Contractor shall interview members of the AV-8B Instrumentation Branch (Code 542400D) and Mr. Ron Page (Code 4K8100D) relative to the necessary steps and order of steps to obtain an Air Worthiness Certification. The Contractor shall develop and "draft" AV-8B Air Worthiness Certification Process document (CDRL B00A). The Contractor shall present this "draft" at a Technical Review Meeting with the Government at a time and place to be negotiated between the TL and TA. The Contractor shall implement any changes documented in the Meeting Minutes of the Technical Review Meeting and submit a "final" version of the AV-8B Air Worthiness Certification Process document (CDRL B00A). The TA will indicate approval of the Process document via an EMail to the TL.

- 3.7.2 Air Worthiness Certifications -- The Contractor shall follow the approved Process (CDRL B000, above) to request and obtain an Air Worthiness Certification for each final Aircraft Modification Proposal (CDRL B008) developed in Section 3.6.2. The Contractor shall notify the TA via EMail of any "issues" preventing issuance of the Air Worthiness Certification and shall include recommended corrective actions to resolve the "issue". The Government's TA will either accept the Contractor's recommendations or provide "alternative recommended actions" via EMail to the TL within 2 working days of receipt of the Contractor's EMail. The Contractor shall proceed as directed by the TA's EMail to resolve each "issue" and resubmit the Aircraft Modification Proposal for Air Worthiness Certification. The Contractor shall deliver to the TA each Air Worthiness Certification (CDRL B00B) within 2 working days of issuance. Delivery of all Air Worthiness Certifications to the TA will complete this Project Major Milestone. The Contractor shall coordinate the activities listed above with the AV-8B Instrumentation Branch, Code 542400D, to assure proper understanding of and compliance with the process required for Air Worthiness Certification (CDRL B00A).

3.8 SYSTEM ACQUISITION, FABRICATION, INSTALLATION, AND INTEGRATION (Project Major Milestone, see Section 3.1.10)

The subject aircraft are vital test assets to the AV-8B IPT. Therefore, the Contractor shall coordinate with the Government relative to access to the physical aircraft and scheduling of aircraft downtime. The Contractor shall minimize aircraft downtime to the greatest reasonable extent possible. The Contractor shall coordinate with the AV-8B Instrumentation Branch (Code 542400D) to schedule Government oversight and inspection prior to any work on the physical aircraft.

3.8.1 System Acquisition, Installation, and Integration -- The Contractor shall purchase, fabricate, assemble, install, and integrate the new systems into the subject aircraft in strict accordance with the approved Aircraft Modification Proposals (CDRL B008). All mechanical work shall be performed in accordance with references 2.2(h) & (i). All wiring and electrical work shall be performed in accordance with reference 2.2(j).

3.8.2 System Test Procedures -- Separately for each aircraft and for the DDAS system aboard aircraft 88, the Contractor shall prepare System Test Procedures (STP, CDRL B00C) in accordance with reference 2.2(k). Each System Test Procedure shall verify that the installation is in complete compliance with the applicable approved Aircraft Modification Proposal and that the newly installed system satisfies all applicable System Requirements Specifications per CDRL B003. The Government will signify approval of each STP via an EMail from the TA to the TL.

3.8.3 System Testing and Report -- The Contractor shall perform System Tests in accordance with the approved System Test Procedures (CDRL B00C) for each system and develop a Test Report (CDRL B00D) documenting each test series conducted. The Contractor shall coordinate the scheduling of the System Tests with the TA so that the Government may exercise the option of witnessing the tests. The Contractor shall resolve any failures documented through the System Testing. The Contractor shall retest and develop a new Test Report (CDRL B00D) documenting the retest until each system satisfactorily passes the approved Test Procedures. Submittal of Test Reports (CDRL B00C) documenting successful test passage of all new systems will complete this Project Major Milestone.

3.9 SOFTWARE (AND SPECIALIZED HARDWARE, IF NECESSARY) FOR NEW SYSTEM CAPABILITIES (Project Major Milestone, see Section 3.1.10)

Background -- It is anticipated that the Government's existing equipment and software for viewing and analyzing flight instrumentation data will not be capable of viewing and analyzing the new data streams that will be available from the new equipment (example: the combined voice and video time-correlated data streams). This SOW Section will provide the Government with the capabilities to view and analyze the new data streams.

- 3.9.1 System Deficiency Analysis and Requirements Specifications -- The Contractor shall analyze the capabilities of existing NAWCWD hardware and software for viewing and analyzing flight instrumentation data. The objective of the analysis is to identify specific deficiencies relative to being able to view and analyze the new data streams available from the new instrumentation systems. The Contractor shall document the areas of existing system (software and hardware) deficiencies in a System Deficiency Analysis (CDRL B00E). The Contractor shall incorporate any required revisions identified in the Government's review of the document. The Government will signify document approval via an EMail from the TA to the TL.

The Contractor shall use the approved System Deficiency Analysis (CDRL B00E) to develop a Requirements Specification (CDRL B00F) for software (and hardware, if necessary) for new capabilities to provide the Government with the abilities to view and analyze the new data streams available from the new instrumentation systems. The Contractor shall incorporate any required revisions identified in the Government's review of the document. The Government will signify document approval via an EMail from the TA to the TL.

- 3.9.2 Tradeoff Analyses and Recommendations -- The Contractor shall use the Government-approved Requirements Specifications from Section 3.9.1 (CDRL B00F) and search the Commercial Marketplace for software (and hardware, if necessary) that meets or can be easily modified to meet the approved Requirements Specifications. Additionally, the Contractor shall develop a plan and estimate to develop the software (and hardware, if necessary) to satisfy the Requirements Specifications as a Contractor-developed deliverable. While not a requirement, similarity to and compatibility with similar systems used by other NAWCWD organizations is desirable. The Contractor shall develop a Tradeoff Analysis and Recommendations Report (CDRL B00G). This Report shall contain, as a minimum, the following:

- summarization of all research conducted
- a matrix spreadsheet that compares each candidate solution (including the Contractor-developed option) against each requirement of the Requirements Specification, portrays additional capabilities of each candidate, shows the estimated cost for each candidate solution and the total Project costs associated with each candidate, and clearly identifies any deficiencies associated with each candidate.
- The Contractor shall select between two to three of the top candidates and discuss issues of: reliability, maintainability, interface with the Government's existing systems, compatibility to similar systems being used by other NAWCWD organizations, and risks for each candidate.
- The Contractor's recommendations and the Contractor's rationale supporting their recommendations.

The Government will evaluate the Report (CDRL B00G) and other factors. The Government will select the candidate(s) with which the Contractor is authorized to proceed. The Government will advise the Contractor of its selection via an EMail from the TA to the TL. Based upon the Government's selection, the Contractor shall either

proceed with acquisition of the recommended software (and hardware, if necessary) or proceed with Contractor development of the software (and hardware, if necessary).

3.9.3 Software Preliminary Design (Contractor Development Option, only) -- The Contractor shall develop a Preliminary Software Unit Development Folder (UDF, CDRL B00H) in accordance with references 2.2(f), (m), & (n). The Preliminary Software UDF shall contain, as a minimum, Requirements Specifications, software flow charts, and sketches of key user interface pages. The Contractor shall present the Preliminary UDF at a Preliminary Design Review (PDR) meeting with the Government at a time and place to be negotiated between the TL and TA. The Contractor shall update the Preliminary UDF to incorporate any changes documented in the PDR Meeting Minutes and resubmit the Preliminary UDF for review. When a satisfactory UDF has been submitted, the Government will notify the Contractor via the PDR Meeting Minutes or via an EMail from the TA to the TL.

3.9.4 Software Final Development (Contractor Development Option, only) -- The Contractor shall develop and integrate the final software product in accordance with the approved Preliminary UDF (see Section 3.9.3) and references 2.2(f), (m), & (n). The Contractor shall document the final software design in a Final UDF (CDRL B00H).

3.9.5 Software (and hardware, if necessary) Installation and Integration -- The Contractor's TL shall request from the TA the identification of Government computers designated for installation of the new software (and hardware, if necessary). The Government's TA will provide a listing of the Government computers and their locations via an EMail to the TL. The Contractor shall install the software (and hardware, if necessary) on the designated computers and integrate the installation with existing software and hardware on the computers to assure proper operation.

The Contractor shall verbally advise the TA when the installation and integration process has been completed on the Government computers. The Contractor shall demonstrate to the TA the functionality of the new installations at a time to be negotiated between the TA and TL. The Contractor shall correct any deficiencies noted by the TA during the demonstration and transmitted to the Contractor via an EMail from the TA to the TL. Upon a satisfactory demonstration, the TA will notify the Contractor via EMail of satisfactory completion of this Project Major Milestone.

3.10 USER TRAINING (Project Major Milestone, see Section 3.1.10)

The Contractor shall conduct User Training sessions for each new system delivered under this Task Order. At least 3 separate training sessions are anticipated; one for each of the two aircraft, plus the software package delivered under Section 3.9. The dates, times, and places for the training sessions shall be negotiated between the TL and the TL.

The training relative to each aircraft shall include a discussion of the newly installed system capabilities, a discussion of maintenance/repair procedures, and a "hands-on" demonstration of pre- and post-flight servicing procedures.

The training relative to the software package shall include a discussion of the software's capabilities and provide "hands-on" training in the use of the software.

Upon a satisfactory completion of scheduled training, the TA will notify the Contractor via EMail of satisfactory completion of this Project Major Milestone.

3.11 FINAL DOCUMENTATION PACKAGE (Project Major Milestone, see Section 3.1.10)

Upon a satisfactory delivery of all documentation defined below, the TA will notify the Contractor via EMail of satisfactory completion of this Project Major Milestone.

- 3.11.1 System Operating, Maintenance, and Repair Manuals and Procedures -- The Contractor shall develop and deliver a complete set of System Operating, Maintenance, and Repair Manuals and Procedures for Project. The Contractor shall deliver a Documentation Plan (CDRL B00J) defining the proposed documents to be developed/delivered, including a description of the contents of each document. The Government will review the document and indicate (via markup) any required changes. The Government will grant approval of the Documentation Plan, after incorporation of all required changes, via an EMail from the TA to the TL.

The Contractor shall follow the approved Documentation Plan to develop a complete set of Project System Operating, Maintenance, and Repair Manuals and Procedures (CDRL B00K).

- 3.11.2 Unit Development Folders -- The Contractor shall assemble all Project design materials into Unit Development Folders (UDFs) in accordance with references 2.2(f). (CDRL B00H)

- 3.11.3 Update of Existing Aircraft Documentation -- The work performed under this Task Order will necessitate changes to existing Government documentation for the subject aircraft. The Contractor shall review existing Government documentation for each of the two subject aircraft and submit to the TA a List of Documents Recommended for Update (CDRL B00L). The Government's TA will either approve (signified by signing the submitted List) or edit the List and return it to the Contractor. The Contractor shall update all documents on the approved/edited List to reflect all work accomplished under this Task Order and affecting each document (CDRL B005).

3.12 FINAL SYSTEMS DELIVERY (Project Major Milestone, see Section 3.1.10)

The Contractor shall schedule with the TA time(s) and place(s) to conduct formal system acceptance tests in accordance with the approved Project Acceptance Plan (PAP, CDRL B004, see Section 3.3). Satisfactory passage of all acceptance tests will signify Final Systems Delivery and Project Completion. The TA will sign the final executed system acceptance test document upon satisfactory test passage to signify Project Completion.

3.13 AV-8B COST DATA REPORTING

The Contractor shall develop and make available a monthly AV-8B Actual Cost Data Report (CDRL B00M) no later than 9 working days after the close of each monthly accounting period. The purpose of this report is to isolate AV-8B costs and data. The Government will use the data as input into the Government's Earned Value Management System (EVMS). The Report shall contain the data fields and structure defined in reference 2.2(o) for the reporting period. The Report shall be structured into an electronic data file in accordance with reference 2.2(o). The Report shall be provided to the Government via posting on a Contractor's web page accessible to the Government, or by an alternate means acceptable to the Government. The Government recognizes that the data provided will be "Contractor Proprietary" and will handle the data accordingly.

SECTION G Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA


AA: 97X4930 NH2C 252 77777 0 054219 2F 000000
AMOUNT: \$1,081,837.00
FUNDING
ACRN: AA
AMOUNT: JOB ORDER NO

010343600070

QUANTITY

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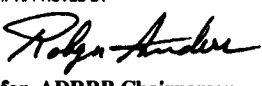
CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188		
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for Contract/PR No. listed in Block E.							
A. CONTRACT LINE ITEM NO. 0001, WSISS TO 0204		B. EXHIBIT B		C. CATEGORY: TDP TM OTHER: MGMT			
D. SYSTEM/ITEM AV-8B Flight Instrumentation / Recording Systems Upgrade			E. CONTRACT/PR NO. N68936-00-D-0022		F. CONTRACTOR EER Systems, Inc.		
1. DATA ITEM NO. B002	2. TITLE OF DATA ITEM MANAGEMENT PLAN			3. SUBTITLE Plan of Action and Milestones (POA&M)			
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80096			5. CONTRACT REFERENCE TO SOW 3.2		6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))		
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED See Block 16	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION			
8. APP CODE LT		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE	b. COPIES		
					Draft	Final	
					Reg.	Repro.	
16. REMARKS See SOW Reference 2.2(a) for all Government Points of Contact. blk 4: Tailor DID as follows: Format shall be consistent with existing Customer Code standards (samples available from TA. See SOW reference 2.2(a)). blk 9: Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only (Administrative or Operational Use) (21 August 2003). Other requests shall be referred to the Task Order Technical Assistant (TA, see SOW ref. 2.2(a)). blks 12 & 13: Submit "draft" within 1 month of Task Order issuance. Submit "final" within 2 weeks of receipt of Government review comments. Update monthly thereafter. blk 14: Submit electronic file only as an EMail attachment.				TA (see SOW ref. 2.2(a))	see	blk	16
				ATAs (SOW ref. 2.2(a))			
15. TOTAL 				see	blk	17	
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE	


Naval Air Warfare Center,
Weapons Division, Code 45C000D
China Lake, CA 93555-6100

2003 AUG 21


for ADRRB Chairperson

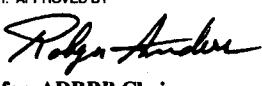
2003 AUG 27


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D. SYSTEM/ITEM AV-8B Flight Instrumentation / Recording Systems Upgrade		E. CONTRACT/PR NO. N68936-00-D-0022		F. CONTRACTOR EER Systems, Inc.		
1. DATA ITEM NO. B004	2. TITLE OF DATA ITEM TEST PLAN		3. SUBTITLE Project Acceptance Plan			
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80566		5. CONTRACT REFERENCE TO SOW 3.3		6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))		
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
8. APP CODE LT	See Block 16	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE		b. COPIES
				Draft		Final
				Reg.		Repro.
16. REMARKS				TA (see SOW ref. 2.2(a))		see blk 16
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				15. TOTAL →		
G. PREPARED BY Naval Air Warfare Center, Weapons Division, Code 45C000D China Lake, CA 93555-6100		H. DATE 2003 AUG 21	I. APPROVED BY  for ADRRB Chairperson		J. DATE 2003 AUG 27	

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A. CONTRACT LINE ITEM NO. 0001, WSISS TO 0204		B. EXHIBIT B		C. CATEGORY: TDP TM OTHER: ADMN	
D. SYSTEM/ITEM AV-8B Flight Instrumentation / Recording Systems Upgrade		E. CONTRACT/PR NO. N68936-00-D-0022		F. CONTRACTOR EER Systems, Inc.	
1. DATA ITEM NO. B005		2. TITLE OF DATA ITEM REVISION TO EXISTING GOVERNMENT DOCUMENT		3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-80925		5. CONTRACT REFERENCE TO SOW 3.3 & 3.11.3		6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))	
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED See Block 16	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION	
8. APP CODE LT		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	b. COPIES	
16. REMARKS				a. ADDRESSEE	
<p>See SOW Reference 2.2(a) for all Government Points of Contact.</p> <p>blk 4: Tailor DID as follows: Format shall be consistent with existing document.</p> <p>blk 9: Distribution Statement of original document shall be retained.</p> <p>blks 12 & 13: Submit in accordance with the schedule agreed to between the TL and TA.</p> <p>blk 14: Media and method of delivery shall be negotiated between the TA and TL.</p>				TA (see SOW ref. 2.2(a))	
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				16	
				15. TOTAL →	
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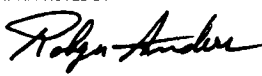
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D. SYSTEM/ITEM AV-8B Flight Instrumentation / Recording Systems Upgrade				E. CONTRACT/PR NO. N68936-00-D-0022			F. CONTRACTOR EER Systems, Inc.								
1. DATA ITEM NO. B008		2. TITLE OF DATA ITEM DESIGN REVIEW DATA PACKAGE				3. SUBTITLE Aircraft Modification Proposal									
4. AUTHORITY (Data Acquisition Document No.) DI-ILSS-81335				5. CONTRACT REFERENCE TO SOW 3.5.1, 3.5.2, & 3.6.1			6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))								
7. DD 250 REQ NO		9. DIST STATEMENT REQUIRED		10. FREQUENCY OTIME		12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION							
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D. SYSTEM/ITEM AV-8B Flight Instrumentation / Recording Systems Upgrade		E. CONTRACT/PR NO. N68936-00-D-0022		F. CONTRACTOR EER Systems, Inc.		
1. DATA ITEM NO. B009		2. TITLE OF DATA ITEM INTERFACE DESIGN DOCUMENT		3. SUBTITLE Interface Control Document		
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81436		5. CONTRACT REFERENCE TO SOW 3.6.1 & 3.6.2		6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))		
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY OTIME	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION		
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D. SYSTEM/ITEM AV-8B Flight Instrumentation / Recording Systems Upgrade				E. CONTRACT/PR NO. N68936-00-D-0022		F. CONTRACTOR EER Systems, Inc.									
1. DATA ITEM NO. B00C		2. TITLE OF DATA ITEM TEST PROCEDURE				3. SUBTITLE System Test Procedures									
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80603				5. CONTRACT REFERENCE TO SOW 3.8.2		6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))									
7. DD 250 REQ NO		9. DIST STATEMENT REQUIRED		10. FREQUENCY OTIME		12. DATE OF FIRST SUBMISSION See Block 16		14. DISTRIBUTION							
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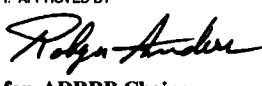
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CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188				
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for Contract/PR No. listed in Block E.									
A. CONTRACT LINE ITEM NO. 0001, WSISS TO 0204		B. EXHIBIT B	C. CATEGORY: TDP TM OTHER: MISC						
D. SYSTEM/ITEM AV-8B Flight Instrumentation / Recording Systems Upgrade		E. CONTRACT/PR NO. N68936-00-D-0022		F. CONTRACTOR EER Systems, Inc.					
1. DATA ITEM NO. B00J	2. TITLE OF DATA ITEM TECHNICAL REPORT-STUDY/SERVICES		3. SUBTITLE Documentation Plan						
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508		5. CONTRACT REFERENCE TO SOW 3.11.1		6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))					
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY OTIME	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION					
8. APP CODE LT	See Block 16	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION See Block 16	a. ADDRESSEE					
				b. COPIES					
				Draft					
				Reg.					
				Repro.					
16. REMARKS See SOW Reference 2.2(a) for all Government Points of Contact. blk 4: Tailor DID as follows: Format shall be consistent with existing Customer Code standards (samples available from TA. See SOW reference 2.2(a)). blk 9: Distribution Statement D: Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) (21 August 2003). Other requests shall be referred to the Task Order Technical Assistant (TA, see SOW ref. 2.2(a)). blks 12 & 13: Submit in accordance with the schedule defined in the approved POA&M. blk 14: Submit electronic file only as an EMail attachment.				TA (see SOW ref. 2.2(a))			see	blk	16
				ATAs (SOW ref. 2.2(a))					
				15. TOTAL →				see	blk
G. PREPARED BY Naval Air Warfare Center, Weapons Division, Code 45C000D China Lake, CA 93555-6100		H. DATE 2003 AUG 21	I. APPROVED BY  for ADRRB Chairperson		J. DATE 2003 AUG 27				

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1. DATA ITEM NO. B00K	2. TITLE OF DATA ITEM OPERATING PROCEDURES MANUAL				3. SUBTITLE Project System Operating, Maintenance, and Repair Manuals and Procedures						
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-81418			5. CONTRACT REFERENCE TO SOW 3.11.1		6. REQUIRING OFFICE TA (see SOW Ref. 2.2(a))						
7. DD 250 REQ NO	8. DIST STATEMENT REQUIRED See Block 16	10. FREQUENCY OTIME	12. DATE OF FIRST SUBMISSION See Block 16	14. DISTRIBUTION							
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Section H

1.0 POINTS OF CONTACT: All Government Points of Contact are identified in Statement of Work (SOW) reference 2.2(a), and can be found at <http://www.eer-rc.com>.

2.0 SECURITY CLASSIFICATION AND CONTROL: This TO may involve information up to the Security Classification of **SECRET**. Contractor personnel supporting this Task Order and who are working on-site at the NAWCWD shall possess not less than a **SECRET** clearance.

3.0 NAVAL AIR WEAPONS STATION (NAWS) ACCESS: Contractor access will be provided to the following NAWS, China Lake restricted areas:

N	North Ranges
F	Airfield Flight Line Area (incl. enclosed bldgs.)
M	Michelson/Lauritsen Laboratories

3.1 The Contractor shall request access for each employee working on this TO to only those NAWS restricted areas to which the employee requires regular access while working on this TO. When a Contractor employee no longer requires regular access to a restricted area, the Contractor shall request appropriate downgrade to that employee's access privileges.

4.0 SAFETY: Work under this Task Order may be performed in and around military aircraft. The Contractor shall assure that his personnel have and use appropriate safety equipment and comply with NAWCWD safety requirements.

5.0 ACCESS TO GOVERNMENT VEHICLES: The requirements of this Task Order may require the Contractor to operate Government-owned vehicles, on- and off-Center, while performing assigned tasks. Access to Government-owned vehicles will be on an "as available" basis, not to interfere with Government use of said vehicles. Potential use of Government-owned vehicles may include: (a) attending meetings and (b) transport of data, equipment, material, and Contractor personnel to/from various locations. The contractor shall ensure that individuals driving a Government-owned vehicle have a valid California driver's license and vehicle insurance coverage for Contractor employees driving designated Government vehicles, per FAR 52.228-7.

6.0 GOVERNMENT FURNISHED EQUIPMENT / DATA: The Government will provide on-site Contractor employees access to all computer systems, tools, equipment, and technical data required to accomplish TO tasking.

6.1 The Contractor shall request access authorization to Government computer systems for only those employees actually needing such access for the performance of their duties

in support of this TO. The Contractor shall ensure that all Contractor employees granted access to Government computer systems or equipment adhere to all related Government security procedures. When a Contractor employee no longer requires access to a Government computer system in support of this TO, the Contractor shall attempt to verbally notify the applicable Government Computer Resources Access Data Manager, and the Contractor shall send written notification within 2 days. If a Contractor employee with access privileges to Government computer systems is transferred from this TO or terminated, the Contractor shall immediately attempt to verbally notify the Government Computer Resources Access Data Manager, and the Contractor shall send written notification within 2 days of the transfer/termination.

7.0 PURCHASED MATERIALS: The Contractor may be required to purchase safety equipment and medical tests (see Note 4.0). The Contractor may be required to purchase materials, mechanical components, fabrication services, and/or software for the tasks defined within the Task Order Statement of Work (SOW).

8.0 CONTRACTOR FURNISHED EQUIPMENT / MATERIALS / SUPPLIES: The Contractor shall furnish all other materials/equipment/supplies, including computer terminals and modems capable of communicating with the laboratories, as required to accomplish efforts established by this SOW and performed within the Contractor's off-Base facility.

9.0 TRAVEL: Non-local, domestic, travel may be required in the performance of this TO to attend technical meetings, gather technical information, and for training (see SOW Sect. 3.1.8 & Note 9.0). All travel shall be approved in advance by the Technical Assistant (or Alternate), Contracting Officer's Representative (COR), and the Contracting Officer or designee (see Note 1.0).

10.0 TRAINING: Training or attendance of Seminars may be required in advanced concepts of instrumentation systems, MIL-STD-1553 databus systems, modern digital recording systems, etc. (see SOW Sect. 3.1.7). All training shall be approved in advance by the Technical Assistant (or Alternate), Contracting Officer's Representative (COR), and the Contracting Officer or designee (see Note 1.0).

11.0 INSPECTION AND ACCEPTANCE: Inspection and acceptance of all deliverables will be accomplished by the Technical Assistant or Alternate (see Note 1.0).

12.0 PLACE OF DELIVERY: Naval Air Warfare Center, China Lake, CA 93555-6001, Attn: (name of Government TA, (see Note 1.0)).

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